FORM NO. 51-48
DEC 1951

25X1 [redacted]

CONFIDENTIAL

CENTRAL INTELLIGENCE AGENCY

INFORMATION REPORT

25X1 [redacted]

COUNTRY USSR

SUBJECT Reported Installation of Radar and Submarine Detection Systems at Tallinn Harbor Entrance / NIIShI VMS Institute, Leningrad

25X1 [redacted]

DATE DISTR. 3 MAY 1954

NO. OF PAGES 1

NO. OF ENCLS.

SUPP. TO REPORT NO.

THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE OF THE UNITED STATES, WITHIN THE MEANING OF TITLE 18 SECTIONS 793 AND 794, OF THE U.S. CODE, AS AMENDED. ITS TRANSMISSION OR REVELATION OF ITS CONTENTS TO OR RECEIPT BY AN UNAUTHORIZED PERSON IS PROHIBITED BY LAW. THE REPRODUCTION OF THIS REPORT IS PROHIBITED.

THIS IS UNEVALUATED INFORMATION

25X1 [redacted]

1. "To control the two entrances of the Tallinn roadsteads a 'double control system' has been established /early 1954/. It consists of:
   (a) Radio beacons and radar (radiolokatsionnye) installations (ustanovki) and
   (b) Submarine vibrators and course and bearing sound indicators (shumopelengatornye ustanovki).

2. "The above installations have been set up at: the Suurupi lighthouse, at Laane-kula and Pohjakula on the island of Naissaar in front of Tallinn and on the west coast of Aegna.

3. "The installations are manufactured by the 'Factory for Navigation and Hydrographic Apparatus of the Naval Forces' in Leningrad. This factory provides the Baltic fleet with all the apparatus it requires. The factory has a research institute called NIITShI VMS (Nauchno-issledovatelski Gidrograficheski-Shturmanski Institut Voienno-Morskikh Sil - Scientific Research Institute for Hydrography and Navigation of the Naval Forces). This institute studies navigation, radio beacons, submarine vibrators and course and bearing detection by means of radio and sound waves. All pertinent foreign apparatus and installations, either taken as trophies or obtained in other ways, are turned over to this institute for study.

4. "The course and bearing sound indicators produced by the factory consist of very sensitive carbon (ugolnye) hydrophones with steel membranes. The hydrophones are sunk into the sea at various points to a depth of six to eight meters. They are connected by cable with electro-dynamic receivers at stations on the shore. When the membrane is struck by any underwater vibrations - of passing ships, this is immediately noted on the indicators of the receivers by means of electric current.

5. "It is reported that for the determination of the exact location of submarines the Soviets have 'hydrolocators' or 'submarine radar installations'. By means of these hydrolocators the exact location of a submarine may be determined at a distance of 10 km. from the station."

25X1 [redacted] and [redacted]

753.68	25M	744.744	3 7N	CONFIDENTIAL
354.31	25M	744.745	3 7N	
650.1	3 7N			

DISTRIBUTION →	STATE		ARMY		NAVY EV		AIR		FBI					

This report is for the use within the USA of the Intelligence components of the Departments or Agencies indicated above. It is not to be transmitted overseas without the concurrence of the originating office through the Assistant Director of the Office of Collection and Dissemination, CIA